



National
Technical University
of Ukraine
"Kyiv Polytechnic Institute"
Science Park
"Kyivska Polytechnika"

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"Spectator"

UNMANNED AERIAL VEHICLE

Key Features

| | |
|-----------------------------------|-------------------------|
| Wingspan | 1400 mm |
| Length | 700 mm |
| Speed | up to 100 km/h |
| Operational maximum | 3000 m |
| Take-off weight | 3.0 kg |
| Weight (without payload) | 1.1 kg |
| Flight Duration | up to 120 min |
| Range of video/radio signal | 20/40 km |
| Environmental: illumination, wind | >0.01 lux, <10 m/s |
| Type of control | auto, semi-auto, manual |
| Radio signal frequencies | 433 MHz, 915 MHz |
| Video channel frequency | 1200 MHz |
| Rise | from the hand |
| Engine | electric |
| Battery charge duration | 3 hours |

Payload: Recording equipment (digital photo/video camera and analogue video camera with tenfold zoom), may be changed upon customer's request

Key Competitive Advantages

The operation does not require highly qualified personnel (operator training requires 2 weeks max)

Easy to transport, the optimum size when folded into back pack (700x200x200mm)

The minimum time for preparation for launch of a disassembled state (up to 2 minutes)

Ability to parachute landing in the absence of platform

Digital secure channel of communication and data transfer

Low noise and visibility

Optimal ratio of payload weight to unit weight

The high aerodynamic qualities

The system consists of the drone, backpack, ground station, radio control panel, plug-in battery kit, antennas

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37 Peremohy Ave., Building 6, Office 235 - Kyiv 03056 - Ukraine

+380 44 454 9919

+380 50 990 0044

www.spark.kpi.ua

info@polyteco.com